

SEP 28 2001

510(k) Summary

ADC Compact Plus

K013138
Page 1 of 2

Common/Classification Name: Computed Radiography, 21 CFR 892.1150 ¹⁶³⁰

Agfa Corporation
10 South Academy Street
Greenville, SC 29602-9048

Contact: Jeff Jedlicka, Prepared: September 18, 2001

A. LEGALLY MARKETED PREDICATE DEVICES

The predicate device is the previous version of the same device, namely the ADC Compact, which was cleared by FDA on 09 March 1998 as K974597.

B. DEVICE DESCRIPTION

The ADC Compact, the predicate device, is a computed radiology imaging system. Instead of screens and photographic film for producing the diagnostic image, the ADC Compact system utilizes an "imaging plate," a plate coated with photo-stimulatable storage phosphors that are sensitive to X-rays and capable of retaining a latent image. This imaging plate is inserted into a device that scans it with a laser and releases the latent image in the form of light which is converted into a digital bit stream. The bit stream of image data is stored locally and can also be stored in the PACS network in DICOM format.

The **ADC Compact Plus** is similar to the ADC Compact, but it has a different laser and smaller spot size for improved resolution and higher throughput. An improved detector improves the sensitivity. The electronics are being reorganized and made smaller, which will result in lower power requirements. However, the basic principles of operation are unchanged. The components that implement these principles of operation are simply being upgraded with better components that are now available.

C. INTENDED USE

The ADC Compact Plus is indicated for use to provide diagnostic quality images to aid in physician diagnosis. The ADC Compact Plus is intended

000031

to be used mainly in chest, skeletal, and gastro-intestinal x-ray imaging applications.

D. SUBSTANTIAL EQUIVALENCE SUMMARY

The **ADC Compact Plus** has the same indications for use as the legally marketed predicate device, so the first decision point in the 510(k) Decision Algorithm is straight-forward. The **ADC Compact Plus** has the same technological characteristics as the predicate device. This premarket notification has described most of the characteristics of the **ADC Compact Plus** in sufficient detail to assure substantial equivalence. For the few characteristics that may not be precise enough to ensure equivalence, performance data was collected, and this data demonstrates substantial equivalence. In keeping with the format of a Special 510(k) for Device Modification, performance data were not included in the submission, but the declarations in **Section IV** provide certification that the data demonstrate equivalence.

E. TECHNOLOGICAL CHARACTERISTICS

The technological characteristics are the same in the proposed and predicate devices.

F. TESTING

The ADC Compact Plus has been tested for proper performance to specifications through various in-house reliability and imaging performance demonstration tests. The device also meets the requirements of EN 60601-1-1 and EN 60601-1-2.

G. CONCLUSIONS

This pre-market submission has demonstrated Substantial Equivalence as defined and understood in the Federal Food Drug and Cosmetic Act and various guidance documents issued by the Center for Devices and Radiological Health.



SEP 28 2001

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

Agfa Corporation
% T. Whit Athey, Ph.D.
Senior Consultant
C L McIntosh
12300 Twinbrook Parkway
Suite 625
ROCKVILLE MD 20852

Re: K013138
Trade/Device Name: ADC Compact Plus
Computed Radiography System
Regulation Number: 21 CFR 892.1630
Regulation Name: Electrostatic X-ray Imaging System
Regulatory Class: II
Product Code: 90 MQB
Dated: September 19, 2001
Received: September 19, 2001

Dear Dr. Athey:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

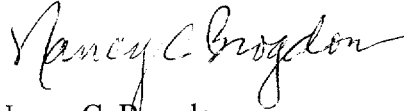
This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>.

Sincerely yours,



Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal, and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

STATEMENT OF INDICATIONS FOR USE

510(k) Number (if known): K013138

Device Name: ADC Compact Plus

Indications For Use:

The ADC Compact Plus is indicated for use to provide diagnostic quality images for aid in physician diagnosis. The ADC Compact Plus is intended to be used mainly in chest, skeletal, and gastro-intestinal x-ray imaging applications.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ☒
(Per 21 CFR 801.109)

OR

Over-The-Counter Use _____

Harvey A. Brandon
(Division Sign-Off)
Division of Reproductive, Abdominal,
and Radiological Devices
510(k) Number K013138

00003